



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

DEC 18 2019

DATE:

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Fabrications Unlimited Inc.

FROM: Natalia Vazquez, Environmental Engineer
AECAB (MI/WI)

THRU: Sarah Marshall, Section Chief
AECAB (MI/WI)

TO: File

BASIC INFORMATION

Facility Name: Fabrications Unlimited Inc.

Facility Location: 4651 Beaufait St, Detroit, Michigan 48207

Date of Inspection: 12/6/2019

EPA Inspector(s):

1. Natalia Vazquez
2. Constantinos Loukeris, Environmental Engineer

Other Attendees

1. Paul Perrell, President, Fabrications Unlimited
2. Allen Perrell, Fabrications Unlimited

Contact Email Address: contact@fabsunlimited.com

Purpose of Inspection: inspect source of emission observed on 12/4/2019 by EPA inspectors

Facility Type: metal fabrication

Regulations Central to Inspection: minor source permit under State Implementation Plan

Arrival Time: 8:45 a.m.

Departure Time: 9:05 a.m.

Inspection Type:

- ☒ Unannounced Inspection
- ☐ Announced Inspection

OPENING CONFERENCE

- ☒ Credentials Presented
- ☒ CBI warning to facility provided

The following information was obtained verbally from Fabrications Unlimited unless otherwise noted.

Process Description:

Fabrications Unlimited is a small metal fabrication facility. One of the fabrication methods used by the facility is plasma burning for cutting metals. The facility has a plasma burning table on the right back corner of its building which is connected to a stack that vents to the atmosphere. There are other vents to the atmosphere in the facility, but these are not in use by the present owners. The facility used to be a chrome plating facility before its present owners took over. The facility does not have a Clean Air Act minor source permit (or Permit to Install).

TOUR INFORMATION

EPA toured the facility: Yes

Data Collected and Observations:

EPA inspectors were driving near the facility on 12/4/2019 and recorded a video of an emission coming out of a stack, located at Fabrications Unlimited (11:21 a.m.). The emission was plume yellow in color and lasted about 30 seconds, recurring about 4 times in an approximately 5 minutes period.

Photos and/or Videos: were not taken during the inspection.

A video was taken at 11:21 a.m. on Wednesday December 4, 2019. Two photographs were taken at 11:22 a.m. on December 4, 2019. No photos or videos were taken on December 6, 2019.

Field Measurements: were not taken during this inspection.

CLOSING CONFERENCE

Concerns: EPA inspectors showed Fabrications Unlimited's representatives the video that was taken prior to the inspection. Facility's representatives were informed that Michigan Department of Environment, Great Lakes, and Energy (EGLE) was made aware of the emission observed by EPA and that the inspection report, photographs and video would be shared with EGLE.

SIGNATURES

Report Author: Natalie L. Vazquez Date: 12-18-19

Section Chief: Erica A. Phillips Date: 12-18-19

Facility Name: Fabrications Unlimited Inc.

Facility Location: Detroit, Michigan

Date of Inspection: December 6, 2019

APPENDICES AND ATTACHMENTS

1. Photos and video log
2. Video and photographs saved in a cd

Facility Name: Fabrications Unlimited Inc.

Facility Location: Detroit, Michigan

Date of Inspection: December 6, 2019

APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Constantinos Loukeris (photos)	2. Archival Record Location: CD-R labeled as Fabrications Unlimited Inc. Detroit, Mi 12/6/2019
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Image Number	File Name	Date and Time (incl. Time zone and DST)	Description of Image
1	Stack.jpg	12/4/2019, 11:22 a.m. EST	Emission from vent connected to the plasma burning table
2	Stack 2.jpg	12/4/2019, 11:22 a.m. EST	Emission from vent connected to the plasma burning table
3	Video emission 12_4_2019.MOV	12/4/2019, 11:21 a.m. EST	Emission from vent connected to the plasma burning table